

REMARKS

An Abstract is added, as requested.

The rejections under 35 USC 112 are traversed by replacing the original claims with new claims. The new claims are not narrowed so as to invoke any present Festo decision. Claims 14-24 correspond to original claims 1-13 with claims 15 and 19 corresponding to original claims 3 and 8, respectively. Claims 25-33 then correspond to original-corresponding claims 14-18 and 21-24, respectively.

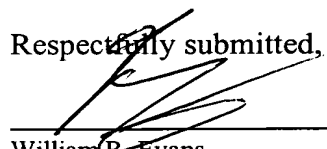
The rejection of original independent claims 1 and 5 as may now apply to claims 14, 17, 15 and 28 under 35 USC 102 for anticipation by the cited Voigt, et al. patent is traversed by the differences from this patent explained in the specification at page 2, lines 17-32, and page 4, lines 1-17, of the specification.

In Voigt, et al. the conductor is conveyed through a varying external magnetic field while being in a superconducting state. As a consequence, a shielding field is generated in the conductor which generates induced shielding currents reaching the value of the critical current. An external touchless measurement means detects the overall field from which the induced currents are derived.

However, Voigt, et al. does not disclose or make obvious the use of the part of the resulting magnetic field which is out of phase with the external field as a basis for a better determination of the critical current.

Reconsideration and allowance are, therefore, requested.

Respectfully submitted,



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